

Amount of substance, Metals and metals alloys, Russian Federation

VNIIM (All-Russian D.I. Mendeleyev Research Institute for Metrology, Rosstandart)

The expanded uncertainty ranges given in the following CMCs may be expressed according to two conventions. For 'Uncertainty convention 1', the expanded uncertainty range spans from the smallest numerical value of the uncertainty to the largest numerical value of the uncertainty found within the quantity range. For 'Uncertainty convention 2', the expanded uncertainty range is expressed as the uncertainty of the smallest value of the quantity to the uncertainty of the largest value of the quantity.

NMI Service Identifier	Measurement Service Category	Matrix	Mesurand		Dissemination Range of Measurement Capability			Range of Expanded Uncertainties as Disseminated						Mechanism(s) for Measurement Service Delivery	Comments
			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?		
8.1-001	Ferrous metals	steel	molybdenum	Mass fraction	0.05	10	%	5	3.5	%	2	95%	Yes	Reference measurement	Uncertainty convention 2 Approved on 06 December 2011
8.1-002	Ferrous metals	steel	nickel	Mass fraction	0.05	10	%	5	3.5	%	2	95%	Yes	Reference measurement	Uncertainty convention 2 Approved on 06 December 2011
8.1-003	Ferrous metals	steel	chromium	Mass fraction	0.01	10	%	5	3.5	%	2	95%	Yes	Reference measurement	Uncertainty convention 2 Approved on 06 December 2011
8.1-004	Ferrous metals	steel	manganese	Mass fraction	0.05	15	%	5	3.5	%	2	95%	Yes	Reference measurement	Uncertainty convention 2 Approved on 06 December 2011
8.2-001	Non-ferrous metals	aluminium	copper	Mass fraction	0.01	5.0	%	5	1	%	2	95%	Yes	Reference measurement	Uncertainty convention 2 Approved on 06 December 2011
8.2-003	Non-ferrous metals	aluminium	manganese	Mass fraction	0.01	5	%	5	2	%	2	95%	Yes	Reference measurement	Uncertainty convention 2 Approved on 06 December 2011
8.2-004	Non-ferrous metals	aluminium	iron	Mass fraction	0.01	10	%	5	2	%	2	95%	Yes	Reference measurement	Uncertainty convention 2 Approved on 06 December 2011
8.2-007	Non-ferrous metals	nickel	copper	Mass fraction	0.2	20	mg/kg	0.1	1.0	mg/kg	2	95%	No	Calibration	Uncertainty convention 1 Approved on 06 December 2011
8.2-008	Non-ferrous metals	nickel	iron	Mass fraction	2.0	100	mg/kg	2.0	5.0	mg/kg	2	95%	No	Calibration	Uncertainty convention 1 Approved on 06 December 2011

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			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?		
8.2-009	Non-ferrous metals	nickel	aluminium	Mass fraction	1.0	100	mg/kg	1.0	2.5	mg/kg	2	95%	No	Calibration	Uncertainty convention 1 Approved on 06 December 2011
8.2-010	Non-ferrous metals	nickel	zinc	Mass fraction	1.0	50	mg/kg	0.6	2.5	mg/kg	2	95%	No	Calibration	Uncertainty convention 1 Approved on 06 December 2011
8.2-011	Non-ferrous metals	nickel	lead	Mass fraction	1.0	50	mg/kg	1.0	2.5	mg/kg	2	95%	No	Calibration	Uncertainty convention 1 Approved on 06 December 2011
8.2-012	Non-ferrous metals	nickel	silver	Mass fraction	1.0	50	mg/kg	0.4	2.5	mg/kg	2	95%	No	Calibration	Uncertainty convention 1 Approved on 06 December 2011
8.2-013	Non-ferrous metals	solder	lead	Mass fraction	100	5000	mg/kg	10	5	%	2	95%	Yes	Value assignment of customer provided material	Uncertainty convention 2 Approved on 12 June 2013